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① Train → Question → Words?  
 ↳ answer-text  
 ↳ distractor

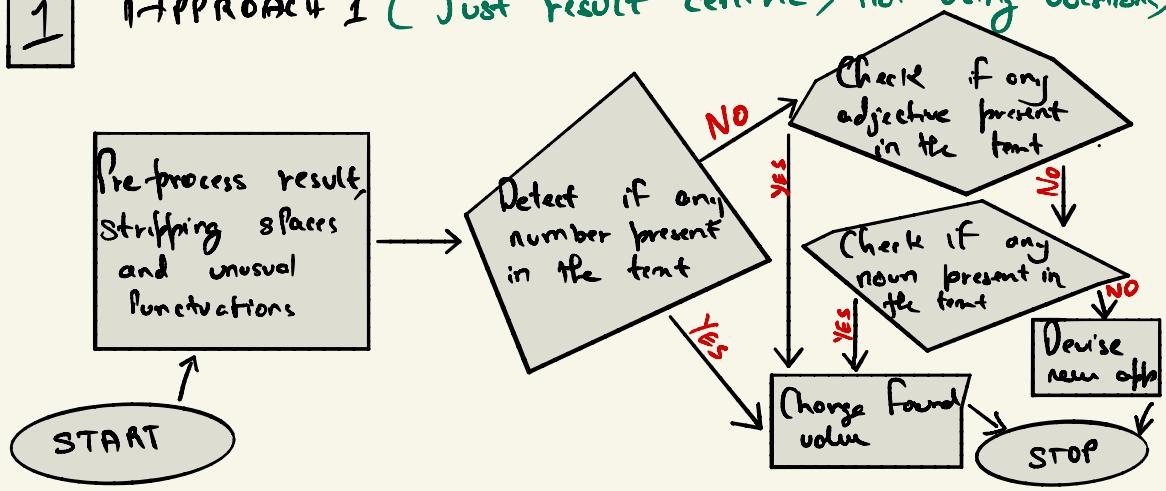
Question : Meals can be served at 9 pm  
 at 10 pm  
 at 11 pm  
 at 12 pm

→ Word embeddings can be used.

\* We've following approaches for the model.

- (Possibly works)  
 1 → Detect adjectives, interchange with antonym  
 2 → Find numbers increase the value  
 3 → Find sent noun and again change  
 noun with antonym or synonym (with  
 higher change)

1 APPROACH 1 (Just result centric; not using Questions)



- This ordering of
- 1) Checking number ↗ if no
  - 2) Checking adjective ↗ if no
  - 3) Checking noun ↗

is something we will have to experiment further.

- \* About using some nltk based method for creating synonyms, we can use, word-embeddings for finding the most similar words in the corpora.

→ Another thing we will have to experiment, check which method can get you better results, basically get you better synonyms.

→ Next thing will be what does Value-lab deem better corpora, nltk or word embeddings.

## ★ Pseudocode

1st round → No python.

```
centre = list(map(lambda m: list(m), data['answers'].values))
```

```
done = [0 for _ in range(len(centre))]
```

```
for i in range(len(centre)):
```

```
    for j in range(len(centre[i])):
```

try:

```
        int(centre[i][j])
```

```
        centre[i][j] = str(int(centre[i][j]+1))
```

```
        print("changed", centre[i][j])
```

```
        done[i] = 1
```

# One option will be  
none of the above

Again how to check if this  
one option value lab records well.

	Questions	Answers
Sample Quarrel	"QFern done Ram come home"	Around 9 Pt"

except:

# Some mechanism  
if  $\text{done}(i) == 0$ :

Print("Couldn't change this", centre[i])  
For changing list of characters to words!!!

For j in range(len(centre[i])):

# split lines into words

for j in range(len(centre[i]))

if spacy(centre[i][j]) = noun?

$\frac{\text{centre}[i][j] = \text{synonym of } \beta}{\text{done}(i) = 1}$

if  $\text{done}(i) == 0$ :

For j in range(len(centre[i])):

# split lines into words

for j in range(len(centre[i]))

if spacy(centre[i][j]) = adjective?

$\frac{\text{centre}[i][j] = \text{synonym of } \beta}{\text{done}(i) = 1}$

def synonym(word):

or anti-similarity

① → Word-embedding similarity for the word in the corpus

② → nltk-based methods for changing word to

Synonyms

\* Challenge - How to optimize extraction of multiple distractors based on 3 stage approach

Obj → list with 2 values [a, b, c]

need to keep record of all the 3 forms we've to fill, Unless all the 2 values are filled we can't have done[1] = 1 it stays 0.

\* Basically for each option I'll have to generate all 3 stages and store them consecutively in the list.

for i in range(len(centre)):

    for j in range(len(centre[i])):

        Stage 1:

        Stage 2:

        Stage 3:

    if done == 2: